Antiangiogenic Tocotrienol Derivatives from Garcinia amplexicaulis

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Auteur	Lavaud, Alexis [1], Richomme, Pascal [2], Litaudon, Marc [3], Andriantsitohaina, Ramaroson [4], Guilet, David [5]
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Résumé en anglais	Phytochemical investigation of a dichloromethane extract from Garcinia amplexicaulis stem bark led to the isolation of four new tocotrienols; two known tocotrienols, two triterpenes, and a xanthone were also isolated. Their structures were mainly established using NMR and MS methods. The main compounds isolated, δ-amplexichromanol (1) and γ-amplexichromanol, were evaluated on VEGF-induced angiogenesis using a Matrigel assay. Compounds 1 and 2 inhibited in vitro angiogenesis of VEGF-induced human primary endothelial cells in the low nanomolar range. Their capacity to inhibit VEGF-induced proliferation of endothelial cells partially explained this activity, although δ-amplexichromanol also prevented adhesion and migration processes.
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